

6GM6

Semiremote-Cutoff Pentode

7-PIN MINIATURE TYPE

For Gain-Controlled, 40-Mc, Picture-IF Stages of TV Receivers

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 $\pm$ 10% volts
Current at 6.3 volts. 0.4 amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield[▲]</i>	
Grid No.1 to plate.	0.036 max.	0.026 max.	μ f
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater . . .	10	10	μ f
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	2.4	3.4	μ f

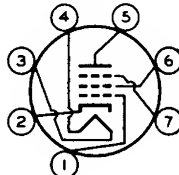
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 125 volts
Grid No.3 and Internal Shield. *.Connected to cathode at socket*
Grid-No.2 Supply Voltage. 125 volts
Cathode Resistor. 56 ohms
Plate Resistance (Approx.). 0.2 megohm
Transconductance. 13000 μ mhos
Plate Current 14 ma
Grid-No.2 Current 3.4 ma
Grid-No.1 Voltage (Approx.) for
transconductance (μ mhos) = 60. -15 volts

Mechanical:

Operating Position. Any
Maximum Overall Length. 2-1/8"
Maximum Seated Length. 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) . . 1-1/2" $\pm$ 3-32"
Diameter. 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb. T5-1/2
Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW. 7CM

Pin 1-Grid No.1
Pin 2-Cathode
Pin 3-Heater
Pin 4-Heater
Pin 5-Plate



Pin 6-Grid No.2
Pin 7-Grid No.3,
Internal
Shield



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 1
8-60

6GM6

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts
GRID No.3 (SUPPRESSOR GRID). *Connect to cathode at socket*
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 330 max. volts
GRID-No.2 VOLTAGE. *See Grid-No.2 Input*

Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value. 0 max. volts

GRID-No.2 INPUT:

For grid-No.2 voltages up

to 165 volts 0.65 max. watt

For grid-No.2 voltages be-

tween 165 and 330 volts. *See Grid-No.2 Input*

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 3.1 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 200 max. volts

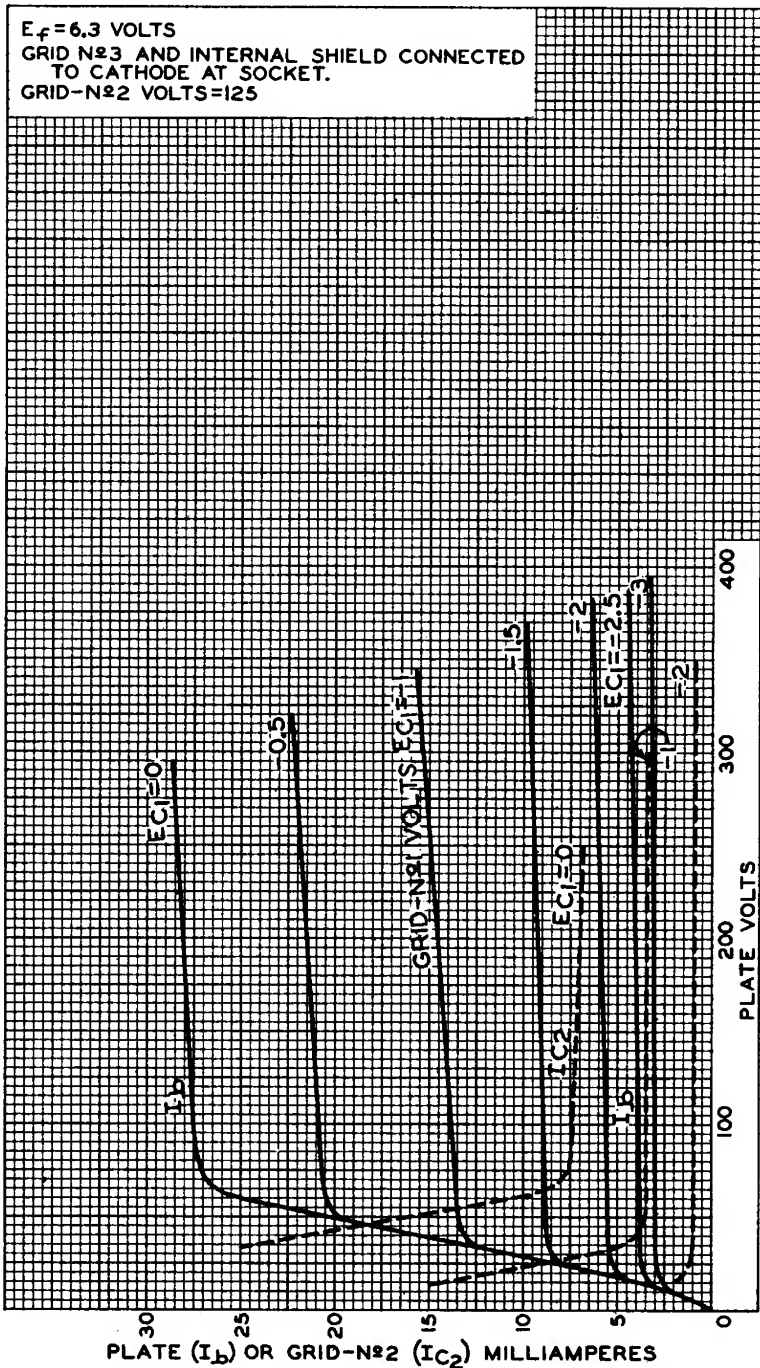
Heater positive with respect to cathode. 200[•] max. volts

[▲] With external shield JEDEC No.316 connected to cathode.

[•] The dc component must not exceed 100 volts.



AVERAGE CHARACTERISTICS

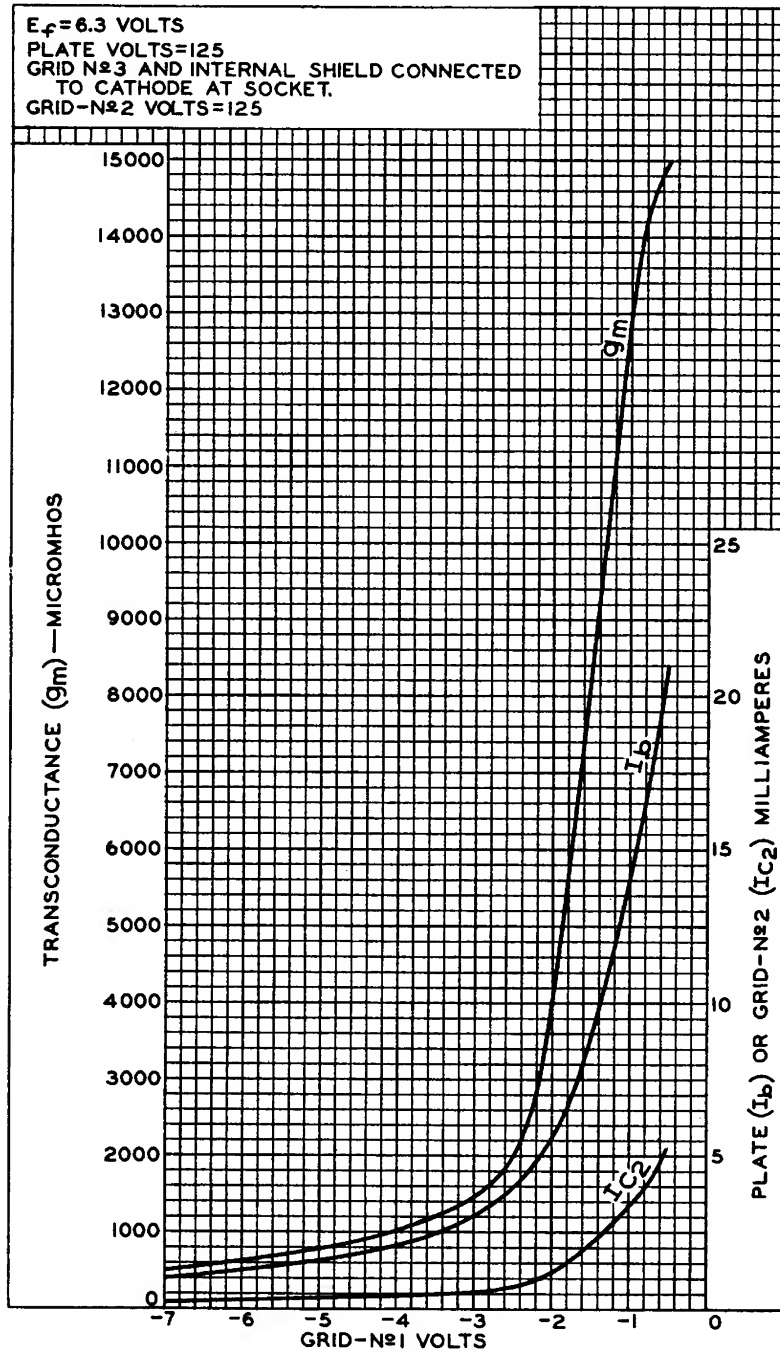


92CM-10390RI



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AVERAGE CHARACTERISTICS



92CM-10391R1

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